

FIGURE 1A

Title: Triacylglycerol Lipases
 Applicant: E. B. Cahoon et al.
 Docket No.: BB1168 US DIV

SEQ ID NO: 35	MW -	-----	LLLTAASVISTLGTTHGLFGKLIKHTNPEVTMNISQMITYWGYPAE	**
SEQ ID NO: 36	MWR	-----	FAVFLAAFFVQDVVGSHG	+
SEQ ID NO: 14	MAMAGHAPGGALPL	-	ILLVVSCCGRIVSGASPAAAAIRRVGSGGGLCDQLLLPLGYPCT	-----
SEQ ID NO: 18	MALLGLMSFAALTFLFLVLT	-	VPRQAHASSRGNLGRNINPSVYGCASSVIVHGYKCQ	-----
SEQ ID NO: 20	MRIQRFLATLAIITVSI	LLGNGNPQVQCFDGGSHQKQH	-----	SLCEELIIPYGYPCS
	1		60	
SEQ ID NO: 37	EYEVVTEDDGYIILGIDRIPYGRKNSE	-	NIGRR	-
SEQ ID NO: 38	IYTIVATDDGYILEMHRIPFGKTNVTWPNNGKR	-	PVAFLQHGLLASATNWIISNLPNNSLAFI	+
SEQ ID NO: 14	EHNVETKDGFLLSIQLHPIHKGK	-	SDWWVNLPDQSAGFI	
SEQ ID NO: 18	EHEVTTDDGYIILSQRPIPEGRG	-	KAADSTGPPVFLQHGLFQGGDTWFINSAEQSLGYI	
SEQ ID NO: 20	EHTIQTKDGFLLGLQRVSSSSSLRLRNRHGDGGPPVILL	HGLFMAGDAWFLNTPEQSLGFI	-----	
	61		120	
SEQ ID NO: 37	LADAGYDVWLGNSRGNTIWARNLIIYSPDSVEFWAFSFD	MAKYDILPATIDFILKKTGDK	*	
SEQ ID NO: 38	FADAGFDVWLGNSRGNTYSMKHKDLKPSHSAAFWDWSDEM	ATYDLNAMINHVLEV	*	
SEQ ID NO: 14	LADNGFDVWIGNVRGTRWSKGHSTFSVHDKLFWDWSM	QELAEYDLLAMLGIVVYTVTQS-K	*	
SEQ ID NO: 18	LADNGFDVWIANTRGTRYSRHISLDPSSQAYWNWSDEL	VSYDFPAVFNYVFSQTGQ-K	*	
SEQ ID NO: 20	LADHGFDVWVGVRGTRWSIGHISLLEKKKKQFWDWSM	QELALYDVAEMINYINSVTNS-K	*	
	121		180	

FIGURE 1B

SEQ	ID	NO : 37	LHYVGHHSQGTTIGFIASFSTNP - KLAKRRIKTFYALAPVATVKYETTLINKLMLVPSFLFKL
SEQ	ID	NO : 38	VYYMGHHSQGTLTMFSHLSKDDGSFAKKIKKKFAALAPIGSVKHIGFLS---FFANY - FSI
SEQ	ID	NO : 14	ILYVGHHSQGTTINGLAALT M--PEIVKMISSAALLCPISYLDHVSAASFV-LRAVAMHLDQM
SEQ	ID	NO : 18	INYVGHSLGTIVALASESE--GKLVQTQLKSAALLSPIAYLSHMNNTALG-VVAPKSFVGEI
SEQ	ID	NO : 20	IFVVGHHSQGTTISLAAFTQ--PEIIVEKVEAAALLSPISYLDHVSAAPLV-LRMVRMHIDEM

SEQ	ID NO: 37	-----IFGNKIFYPHFFDQFLATEVCSRETVDL-LCSNALFIIICGFDTMNLNMSRLL
SEQ	ID NO: 38	EFDGWFDFIFGAGEFLPNNWAMKLAAKDIDCGGLKVEADLCDNVLLFELIAGPESDQWNQTRVP
SEQ	ID NO: 14	LV-----TMGIHQLNFRSDMGVQIVDSSLCDGEHV-----CNNLLSAITGENC-CFNTSRID
SEQ	ID NO: 18	TT-----LFGLAEFNPKGLAVIDAFLKSLCAHPGID-----CYDLLTALTGKNC-CLNSSTVD
SEQ	ID NO: 20	IL-----TMGIHQLNFKSEWGGASLLVSLCDT-RLS-----CNDMLSSITGKNC-CFNECSRVE

SEQ	ID NO : 37	VYLSHNPAGTSVQNVLHWSQAVKSGKFQAFDWGSPVQNMMPYQNLTDMHVPIA
SEQ	ID NO : 38	WYATHDPAGTSTQNIVHWMQMVHHGGVPAYDWGKTKNKK- YGOANPPEYDFTAIKGTKI
SEQ	ID NO : 14	YYLEYEPHPSSTKNLLHFLQMIRKGTFAKYDGLLG-NLRRYGHLRPPAFDLSSIPESLP
SEQ	ID NO : 18	LFLMNEPQSTSTKNMVHLAQTVRIGALTKFNYVRPDYNTIMHYGEIFPPINYLNLSNIPHDLPL
SEQ	ID NO : 20	FYLEQEPHPSSSKNNLHFLQMIRKGTYSKYDYGKLK-NLIEYGFNPFPKFDLSRIPKSLP

FIGURE 1C

SEQ ID NO:37 V--WNGGNIDLADPHDVDLLLSKL-PNLIYHRK---IPPYNHLDFTIWAMDAPQAVYNEIV
SEQ ID NO:38 YLYWSDADWLAQDTPDVPDYLTRINPAIVAQNN--HLPDYNHLDFTWGIRAPDDIYRPAI
SEQ ID NO:14 IWMGYGGGLDALADVTDVQRTIREL---GSTPELLTYGDIYGHIDFVMSVVKAKDDVYVDLI
SEQ ID NO:18 LFISYGGGRDALSDVRDVENILDKLKFDENKRSVQFQIQEYAHADYIMGFNAKDLIVYNAVL
SEQ ID NO:20 IWMAYGGNDALADITDFQHTLKEL---PSPPEVVYLENYGHVDFILSLOAKQDLYDPMI
361 420

SEQ ID NO:37 SMMGTD---NK
SEQ ID NO:38 KLCTDD--YLGK
SEQ ID NO:14 RFLRENGWHNSY
SEQ ID NO:18 SFENHQ---V
SEQ ID NO:20 SFFKSSSGKFSSM
421 433